

Lyman, Randy

From: Nancy Priddy [nrpridn@mail.dnr.state.mo.us]
Sent: Thursday, February 08, 2001 5:03 PM
To: Chuck Kroeger; Steve_Short@ci.springfield.mo.us; Randy_Lyman@ci.springfield.mo.us
Subject: Groundwater investigations

Thanks for your help. You've told me all I needed to know. There actually is no large VOC plume that we know of now and I probably should have included the word "potential" when I named this "site". My investigation is centered on the Tri-States drycleaning sites in central Springfield. They are both now in the Voluntary Cleanup Program for remediation. The old Solid States Circuits site is also right there among them and they all have (had) chlorinated solvent contamination in wells...PCE and/or TCE. We (Superfund, Site Evaluation Unit) are hoping to answer a couple of questions with our sampling of wells and springs "nearby":

1. Has the contamination at these sites migrated away from the sites and could it be threatening other wells or the environment?

or, the other way around;

2. Could there actually be a larger plume in the area that has affected these three wells?

Either way, I'm hoping to not find anything. But I did want to know what kind of contaminants the monitoring wells in question may be associated with.

So, you've been helpful. Thanks. Chuck, I anticipate finishing this project by the end of March.

Nancy Priddy
HWP/Superfund
573/751-8858
nrpridn@mail.dnr.state.mo.us

2/9/01

220 N. FORT

Lyman, Randy

From: Chuck Kroeger [nrkroec@mail.dnr.state.mo.us]
Sent: Thursday, February 08, 2001 11:54 AM
To: Short, Steve; randy_lyman@ci.springfield.mo.us; Nancy Priddy
Cc: Chuck Kroeger
Subject: Re: FW: Springfield VOC Plume-220 N. Fort

thanks for your information. Nancy I guess this should help--

Steve and Randy, I'll get you copies of the report as it progresses. Right now the plan is to sample springs and caves "near" the downtown area - sort of centering on the old laundry sites looking for perc and, I guess, related voc's.

"Short, Steve" <Steve_Short@ci.springfield.mo.us>

To: "'Chuck Kroeger'" <nrkroec@mail.dnr.state.mo.us>

cc:

02/08/2001 10:13 AM

Subject: FW: Springfield VOC Plume-220 N. Fort

My recollection is pretty much the same as Randy's. Sunbelt has been in there in the last couple of years? They disposed of the drill cuttings at the landfill. We may have some analytical from their submittal. The Welding Supply to the southwest removed a large amount of soil about six years ago, and probably could not discount the old railroad maintenance facility across the creek to the north. I will talk to Randy, but I seem to recall a fairly major sewer repair in the vicinity of the spring. There is also an abandoned 30" brick sanitary sewer in that area that has had an "oily, nasty" appearance. Do you have any other information, what VOC, etc.

-----Original Message-----

From: Lyman, Randy
 Sent: Wednesday, February 07, 2001 5:29 PM
 To: 'Chuck Kroeger'; 'nrpridn@mail.dnr.state.mo.us'
 Cc: Short, Steve; Chandler, Karen; Corson, Bob; Pabst, Gene; Schaefer, Bob; Malter, Ed
 Subject: RE: Springfield VOC Plume-220 N. Fort

Chuck, I looked in our files and have not found any written documentation for the property under the management of Mo. Pacific or Union Pacific Railroad. I do remember we had a sewer line rupture maybe in the 80's up on the hill at Grant and Walnut near Butternut Bakery. The spring became milky, floury white from the sewer leak and we diverted it to a sewer trunk line just a few feet south of the spring to avoid stream pollution. During this excavation we encountered a substantial encroachment of oily water entering the open trench. As I recall we called your agency and the U.P. railroad. I don't remember who responded from your agency, but Ed Sears was aware of the problem due to his involvement with the spring contamination from the sewer line break. We dealt with a W.T.(Red) Wilson out of Carthage, Mo., Manager of Track Maintenance, and a Mark Maniaci of U.S. Pollution Control, an engineering and consultant subsidiary of U.P. railroad(I still have their business cards). As I remember, DNR took over the lead on this project and UP voluntarily installed the observation wells. It seems like maybe Sunbelt helped USPCI on this project as a local resource as well. We did not track the progress of any remediation of the groundwater at this location in the subsequent years. I guess we thought UP and DNR were handling that. We understood this site was a fueling station for the MoPac railroad for many years and had aboveground fuel tanks up into the 70's. Our involvement for many years in the 70's was with Southwest Byproducts having a animal fat, grease, inedibles, etc. transfer station at this location. Spills of those materials was on the surface and sometimes reached the Jordan Creek close by. The site had a huge accumulation of used railroad ties at one time, but the entire site was cleaned up maybe in the

2/8/01

220 N. Fort

late 80's and most of the indications of the structures of the former uses were removed. If we find any further documentation in our files, we'll let you know. Steve Short and our inspectors may remember additional information. Randy.

-----Original Message-----

From: Chuck Kroeger [mailto:nrkroec@mail.dnr.state.mo.us]
Sent: Wednesday, February 07, 2001 12:54 PM
To: Nancy Priddy
Cc: randy_lyman@ci.springfield.mo.us; Steve_Short; Chuck Kroeger
Subject: Re: Springfield VOC Plume

I assume you are referring to the old Missouri Pacific site on the south side of the tracks east of Fort and north of College.

I am not thoroughly familiar with it but understood that the rr did some site testing and may have put in a few shallow wells(?) to check for subsurface contamination?? I am copying Randy Lyman and Steve Short on this - they both work for the City of Springfield and can probably better address the issue.

Guys, any background info you have on the site???

Nancy Priddy

02/05/2001 02:44 PM

To: Chuck Kroeger/SWRO/DEQ/MODNR@MODNR
CC:
Subject: Springfield VOC Plume

Chuck, I'm fishing for a little information. When I was in Springfield on Jan. 10 and 11, sampling for the above site, one of the places we looked at was Dingledein Spring, located near some railroad tracks in the vicinity of West College St. and S. Fort Ave. Loring Bullard thought there was a hazardous waste site in this vicinity, perhaps associated with the railroad, and I did see some monitoring wells nearby the RR tracks. Do you know anything about this situation?

Nancy Priddy
HWP/Superfund
573/751-8858

2/8/01

220 N. FORT

Lyman, Randy

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Sent: Wednesday, February 07, 2001 5:29 PM
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2/7/01

220 N. FORT

Nancy Priddy
HWP/Superfund
573/751-8858

2/7/01

220 N. Fort

June 12, 1978

Jerry R. Carter
3401 North Grant
Springfield, Missouri 65803

Dear Mr. Carter:

On May 15, 1978, during routine surveillance, personnel from the City's Water Pollution Control Section discovered a pollutant discharge from Southwest By-Product Storage Department located at 220 North Fort. The discharge was flowing from beneath the tank cars to the east of the buildings, across the road and down into Jordan Creek.

Please be advised that such a discharge is in violation of City, State and Federal Water Pollution Control Laws. Be further advised that these laws carry severe penalties for unlawful discharge of water contaminants.

This office would advise you to abate any future discharge, and to dispose of such wastes in a proper waste treatment system. This office maintains periodic surveillance within the corporate limits of the City and will be watching this area closely.

Attached to this letter is a copy of the analysis of the waste being discharged on May 16, 1978.

The City's staff will be happy to meet with you at any time to discuss this or any other disposal problems you might have. If we may be of further assistance or can answer any questions, please do not hesitate to call.

Yours truly,

J. D. Slaughter
Water Pollution Control Inspector II
Surveillance & Enforcement

Attachment

cc: Robert R. Schaefer, Superintendent of Sanitary Services
Charles H. Criswell, Associate Environmental Engineer
John R. Nixon, Department of Natural Resources
✓ Public Works File

220 N- FORT

CITY OF SPRINGFIELD, MISSOURI
SOUTHWEST WASTEWATER TREATMENT PLANT
LABORATORY ANALYSIS REQUEST

DATE IN: 5/17/78

SAMPLE DESCRIPTION AND PHYSICAL APPEARANCE: _____

Sw By Products (terminal)

CHECK ANALYSIS DESIRED:

_____ SUSPENDED SOLIDS 4940 mg/l Date: _____

_____ BOD₅ 17500 mg/l Date: _____

_____ COD 32,800 mg/l Date: _____

_____ pH 1.82 Date: _____

_____ NH₃-N 103 mg/l Date: _____

_____ PO₄ ORTHO _____ mg/l Date: _____

_____ CARBON C_T 15500 C_I _____ C_O _____ Date: _____

_____ TOXICITY _____ Date: _____

_____ HEAVY METALS(SPECIFY): _____

_____ Date: _____

_____ OTHER(SPECIFY): Oil + Grease 120 mg/l

_____ Date: _____

REPORT OUT: Date: _____

By: Martin

220 N-FORT

APPENDIX B

SPILL PREVENTION CONTROL AND COUNTERMEASURE PLANS

FOR

SOUTHWEST BY-PRODUCTS, INC. PLANT
WEST FORT AVENUE SITE
JUST NORTH OF COLLEGE STREET
SPRINGFIELD, MISSOURI

SOMEONE FROM
WRIGHT ASSOC



220 N. FORT

SPILLS PREVENTION CONTROL AND COUNTERMEASURE PLAN

OWNER: SOUTHWEST BY-PRODUCTS, INC.

LOCATION: WEST FORT AVE. SITE

DISCUSSION OF FACILITIES:

At present the site contains three vertical tanks with approximately 14,700 gallons capacity each and two horizontal tanks with approximately 9300 gallon capacity. Four vertical tanks with capacities of 11,000, 10,960, 10,575, and 14,700 gallons are to be moved to this site from the main plant area on North Grant Street Road.

The site is located on the south bank of Jordan Creek approximately 50 feet from the bank edge. Jordan Creek is a low flowing creek except during periods of heavy rainfall.

A retention pond has been built on the west side of the site. This pond would collect any leakage from the west tanks; however the eastern tanks would drain toward the creek and to the east.

PLAN DISCUSSION:

The whole basis for this SPCC Plan is on the material being stored in these tanks. The tanks contain animal fat or grease. This material has the characteristic that it solidifies at a temperature of about 100° F. This fat will float on the surface of water as a solid and can be removed. This is a favorable characteristic; however the problems associated with completely cleaning up Jordan Creek after a large spill would be enormous.

We believe that the best plan is to prevent any spillage from entering Jordan Creek. The most economical method is to construct a retaining fence along the south bank of Jordan Creek in conjunction with an earth berm on the east. This fence can be built for a sufficient distance between the facility and the creek to insure containment of the fat by the fence, the retention pond to the west and the proposed earth berm to the east.

The total length of fence involved would be approximately 200 feet. A sketch of the site is enclosed in Figure 2 showing possible fence location. The fence can be constructed of vertical posts with corrugated metal siding attached horizontally to the posts. A detail of the fence and berm is included on Figure 3.

Should a major spill occur, this structure should contain the fat and prevent any reaching Jordan Creek. An exception would be if a tank fell toward the fence. This type of catastrophe failure would very likely result in a spill into Jordan Creek.

Should some fat enter Jordan Creek we propose the following steps be taken:

- 1] Notification of person within firm responsible for oil spill prevention and cleanup.
- 2] Action should begin immediately by a spill cleanup crew to contain the floating tallow on Jordan Creek. This can be accomplished by having wire mesh that can be spread across the Creek to block the solids.

SPILLS PREVENTION CONTROL AND COUNTERMEASURE PLAN

OWNER: SOUTHWEST BY-PRODUCTS, INC.

APPENDIX B CONT:

- 2] The members of this crew should be aware of this responsibility and have their equipment stored in an accessible place for immediate use. The creek should also be scouted and several locations spotted with good access to place the mesh barriers.
- 3] Begin cleanup operations as soon as possible. Suitable equipment should be available to facilitate removal of the solid tallow from the water surface.
- 4] Should a spill occur, the Environmental Protection Agency should be notified at 816/374-3778 and also the Missouri Clean Water Commission at 314/751-3241. The following information should be provided to these agencies:
 - a. Is cleanup started?
 - b. Type material spilled.
 - c. Existing weather conditions.
 - d. Name of stream receiving pollutants.
 - e. Where is the spill?
 - f. Amount of material spilled.
 - g. Time spill occurred.
 - h. Extent of damage.
 - i. Responsible party.

This plan will require a written commitment of manpower, equipment and materials to isolate the tallow spilled to the stream and to collect and remove it from the water. This commitment letter should be placed with this spill plan.

A bulletin should be posted at this site giving the persons to be notified should a spill occur.

A good spills prevention program must also contain provisions for periodic integrity testing of the storage tanks. Generally this could be accomplished by visual inspection of the welds and look for any signs of deterioration of the tank metal.

We believe that the facility will comply with the appropriate guidelines as spelled out in The Federal Register dated December 11, 1973, Volume 38, Number 237, Part II, as soon as the provisions in this report are implemented.

COMPACTED
EARTH BERM

DRAINAGE DITCH

NEW
TANK

NEW
TANK

EXIST.
TANK



A

COMPACTED
EARTH

22'

9'

3'

EXIST.
TANK

NEW
TANKS

EXISTING
HILL SIDE

DRAINAGE
DITCH

SECTION A-A

FIGURE 1

220 N. FORD

Figure 7

MANHOLE

BUDS

Proposed Earth Berm

JORDAN

CREEK BANK

Flow

FENCE

DRIVE

CREEK

DRAINAGE

DIVIDE

Proposed Fence

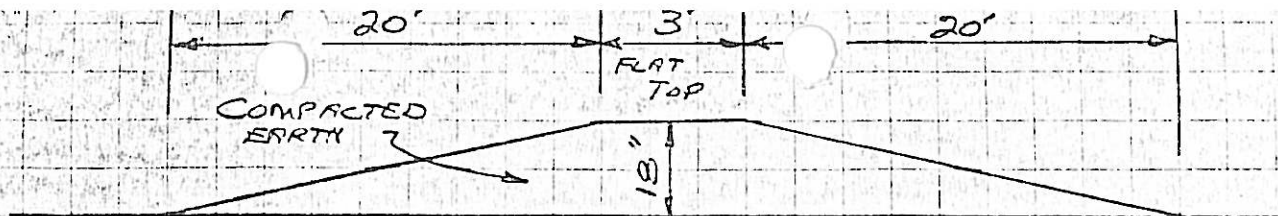
RETENTION POND



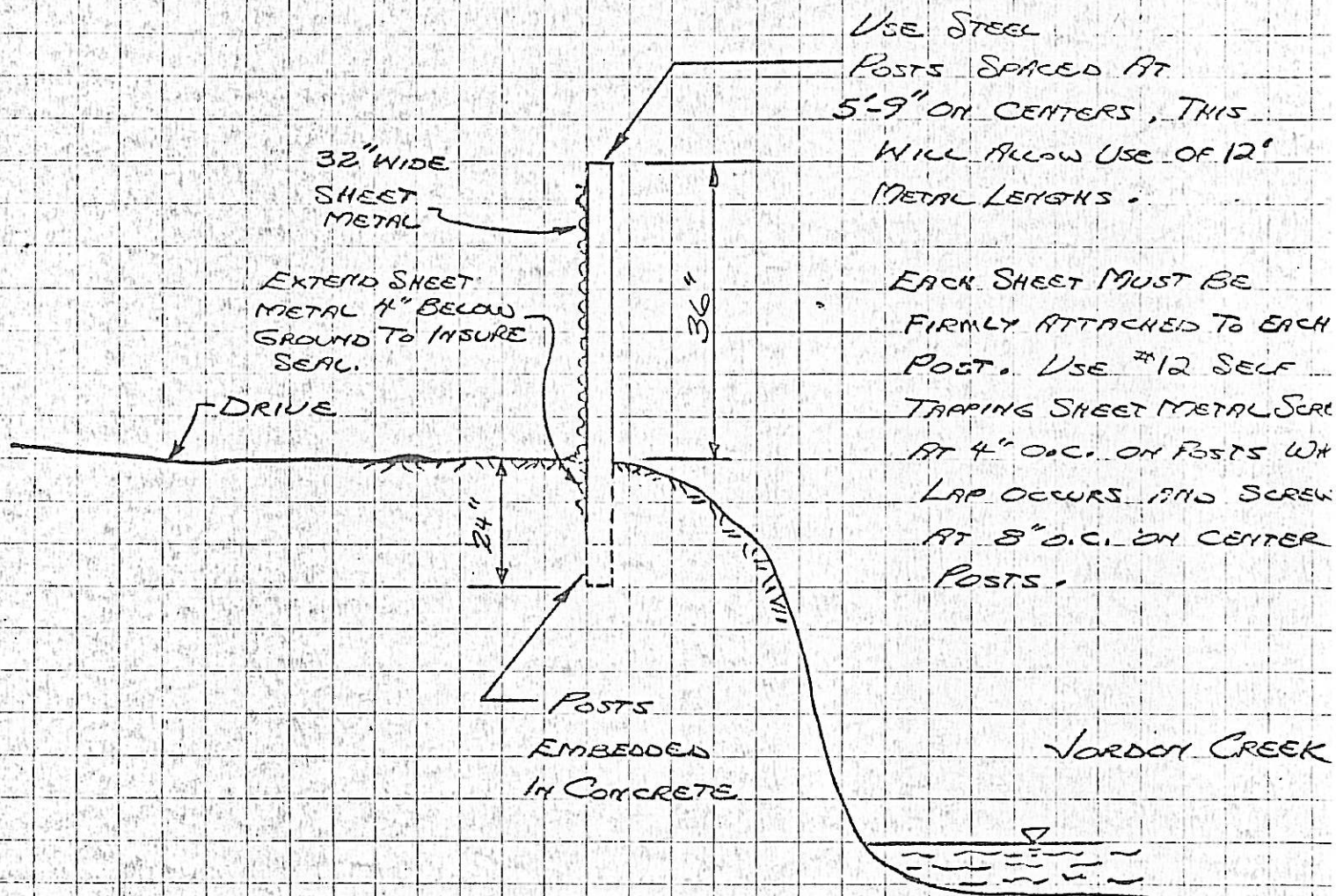
RE main line

RE Spur

220 N. Port



SECTION 2-2



SECTION 1-1

FIGURE 3